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NOTICE OF ALLOWANCE AND FEE(S) DUE

52349

7590

07/24/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

EXAMINER

KING, JOHN B

ART UNIT PAPER NUMBER

2435

DATE MAILED: 07/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559.725	12/07/2005	Yuichi Futa	2005 1849A	1837

TITLE OF INVENTION: ENCRYPTION COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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		lock 1 for any change of address)	Feet	(c) Transmittal This	mailing can only be used for s certificate cannot be used for paper, such as an assignment of mailing or transmission.	for any other accompanying		
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						(Signature)		
						(Date)		
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/559,725	12/07/2005	•	Yuichi Futa		2005_1849A	1837		
TITLE OF INVENTION	N: ENCRYPTION COM	MUNICATION SYSTEM	1					
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE		
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/26/2009		
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
KING,	JOHN B	2435	713-176000					
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37		For printing on the patent front page, list				
	oondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
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PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the part of the part o	atent. If an assigne	ee is identified below, the d	ocument has been filed for		
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Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🖵 Co	rporation or other private gro	oup entity Government		
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☐ Issue Fee	T11		☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
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5. Change in Entity Sta	i tus (from status indicate ns SMALL ENTITY stati	*	☐ b. Applicant is no lon-	ger claiming SMAI	L ENTITY status. See 37 C	FR 1 27(9)(2)		
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This collection of inform	nation is required by 37 (FR 1 311 The information	on is required to obtain or r	etain a benefit by th	ne public which is to file (an	d by the USPTO to process)		
an application. Confident submitting the complete this form and/or suggest	itiality is governed by 35 d application form to the ions for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indiving Chief Information Office	imated to take 12 n ridual case. Any cor er. U.S. Patent and	ninutes to complete, includir mments on the amount of ti Trademark Office, U.S. Dep . SEND TO: Commissioner	ng gathering, preparing, and me you require to complete partment of Commerce, P.O.		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,725	12/07/2005	Yuichi Futa	2005_1849A	1837
52349 75	590 07/24/2009		EXAM	INER
WENDEROTH,	LIND & PONACK I	KING, JOHN B		
1030 15th Street, N	I.W.	ART UNIT	PAPER NUMBER	
Suite 400 East Washington, DC 20005-1503			2435 DATE MAILED: 07/24/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 540 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 540 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/559,725	FUTA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	John B. King	2435	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS . This application is	in this application. If not included nunication will be mailed in due c	d ourse. THIS
1. X This communication is responsive to <u>amendment filed 6/23</u>	3/09 and the interview cond	lucted on 07/08/09.	
2. The allowed claim(s) is/are <u>1-3,5-12,14,15 and 17-19</u> .			
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:) or (f).	
 Certified copies of the priority documents have 			
Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requ	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	_	, , , , , , , , , , , , , , , , , , , ,	
(b) ☐ including changes required by the attached Examiner'		or in the Office action of	
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Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of I	nformal Patent Application	
Notice of Neterences Cited (1 10-032) Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
2. In Notice of Dialiperson's Laterit Diawing Neview (FTO-940)	Paper No	./Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner'	s Amendment/Comment	
Paper No./Mail Date 4.	8. 🛭 Examiner'	s Statement of Reasons for Allov	vance
····· ·	9. 🔲 Other	<u>_</u> .	
/JBK/			

Application/Control Number: 10/559,725 Page 2

Art Unit: 2435

DETAILED ACTION

 This action is in response to applicant's Request for Continued Examination (RCE) filed on June 23, 2009.

Allowable Subject Matter

2. Claims 1-3, 5-12, 14-15, and 17-19 are allowed.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andrew Dunlap on July 8, 2009.

The application has been amended as follows: Cancel claim 4 and move the limitations from claim 4 into claims 3, 11, and 12 as shown below. The entirety of the newly amended claims has also been attached to this office action.

Claim 3 (Currently Amended) An encryption transmission apparatus for secret message communication with an encryption reception apparatus, the encryption transmission apparatus comprising: a storage unit that stores one message; an

encryption unit operable to perform an encryption computation on the one message a plural number of times to generate a plurality of encrypted messages from the one message, a number of encrypted messages generated from the one message by the encryption unit being equal to the number of times the encryption unit performs the encryption computation on the one message; a computation unit operable to perform a one-way operation on the one message to generate only one comparison computation value from the one message; and a transmission unit operable to transmit, to the encryption reception apparatus, the plurality of the encrypted messages and the one comparison computation value, wherein the encryption unit comprises: an encryption computation subunit operable to perform an invertible data conversion on the one message to generate a converted message, and perform an encryption algorithm on the converted message to generate one encrypted message; and a repetition control subunit operable to control the encryption computation subunit to repeat the generation of the converted message and the generation of the one encrypted message, the generation of the converted message and the generation of the one encrypted message being repeated the plural number of times the encryption unit performs the encryption computation on the one message to generate the plurality of encrypted messages.

Claim 4 (Cancelled)

Claim 5 (Currently Amended) The encryption transmission apparatus of Claim 3 Claim [[4]], wherein the encryption computation subunit generates a random number of a fixed

length, and generates the converted message by adding the random number to the one message.

Claim 11 (Currently Amended) An encryption transmission method used in an encryption transmission apparatus, the encryption transmission apparatus storing one message and transmitting the one message in secrecy to an encryption reception apparatus, the encryption transmission method comprising: performing an encryption computation on the one message a plural number of times to generate a plurality of encrypted messages from the one message, a number of encrypted messages generated from the one message by the performing of the encryption computation being equal to the number of times the performing of the encryption computation performs the encryption computation on the one message; performing a one-way operation on the one message to generate only one comparison computation value from the one message; and transmitting, to the encryption reception apparatus, the plurality of the encrypted messages and the one comparison computation value, wherein the performing of the encryption computation further comprises: performing an invertible data conversion on the one message to generate a converted message, and performing an encryption algorithm on the converted message to generate one encrypted message; and controlling the performing of the invertible data conversion to repeat the generation of the converted message and the generation of the one encrypted message, the generation of the converted message and the generation of the one encrypted message being repeated the plural number of times the performing of the Art Unit: 2435

encryption computation performs the encryption computation on the one message to generate the plurality of encrypted messages.

Claim 12 (Currently Amended) A computer-readable recording medium having an encryption transmission program recorded thereon, the encryption transmission program being used in an encryption transmission apparatus, the encryption transmission apparatus storing one message and transmitting the message in secrecy to an encryption reception apparatus, the encryption transmission program causing the encryption transmission apparatus to execute a method comprising: performing an encryption computation on the one message a plural number of times to generate a plurality of encrypted messages from the one message, a number of encrypted messages generated from the one message by the performing of the encryption computation being equal to the number of times the performing of the encryption performs the encryption computation on the one message; performing a oneway operation on the one message to generate only one comparison computation value from the one message; and transmitting, to the encryption reception apparatus, the plurality of the encrypted messages and the one comparison computation value, wherein the performing of the encryption computation further comprises: performing an invertible data conversion on the one message to generate a converted message, and performing an encryption algorithm on the converted message to generate one encrypted message; and controlling the performing of the invertible data conversion to repeat the generation of the converted message and the generation of the one

encrypted message, the generation of the converted message and the generation of the one encrypted message being repeated the plural number of times the performing of the encryption computation performs the encryption computation on the one message to generate the plurality of encrypted messages.

4. The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of the claims is the inclusion of the limitation, inter alia, "a computation unit operable to perform a one-way operation on the one message to generate only one comparison computation value from the one message" is in all claims which is not found in the prior art references previously relied upon. The concept of performing a plurality of encryptions and transmitting the encrypted data to later be decrypted and verified has been done before, but the concept of doing this with only "comparison computation value" cannot be found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. King whose telephone number is (571)270-7310. The examiner can normally be reached on Mon. - Fri. 7:30 AM - 4:00 PM est..

Application/Control Number: 10/559,725 Page 7

Art Unit: 2435

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571)272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JBK/ /Kimyen Vu/ Supervisory Patent Examiner, Art Unit 2435